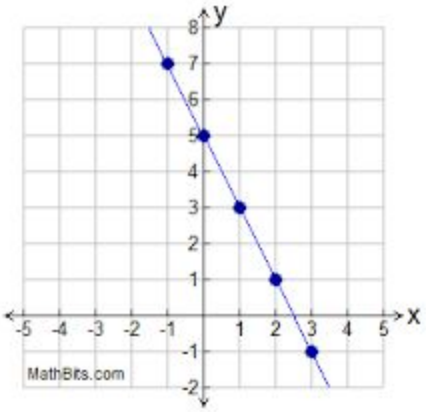
Name: _____ **Date:** _____

Practice Quiz: Writing Equations of Lines

Part One: Identify the slope and y-intercept of each line.

1. $y = \frac{1}{3}x - 10$ slope = _____ y-int = _____	2. $y = x - 7$ slope = _____ y-int = _____	3. $y = 19x$ slope = _____ y-int = _____



4. slope = _____ y-int = _____

Part Two: Real World Situation

5. A fashion icon's closet begins with thirty pairs of shoes. He adds six pairs of new shoes per month to his collection.

a. What is the starting amount? _____ b. What is the rate of change? _____

c. Write an equation in slope intercept form to model this situation.

_____

d. How many total pairs of shoes will the fashion icon have after six months of collecting?

_____ pairs of shoes

Part Three: Writing Equations of Lines: Write the equations of the lines in slope-intercept form.

6. slope = 7; y-int = -12	7. slope = 1; y-int = 1	8. y-int = 0; slope = - 5

9. the equation of the line that passes through (1, 8) and (2, 10)	10. the equation of the line that passes through (-3, 5) and (4, 12)

Part Four: Parallel Lines

11. Parallel lines have the same _____, but different _____.
12. Write the equation of the line in slope-intercept form that is parallel to y = 5x - 1 and passes through the point (-1, 6).